

## CLAIMS

I/We claim:

- [c1] 1. A method in a network of switches for handling errors, the method comprising:

receiving at a switch a transaction request from an initiator communications device;

transmitting the transaction request through the network to a responding communications device;

receiving at a switch a transaction response from the responding communications device;

transmitting the transaction response through the network to the initiator communications device; and

upon detecting an error during the transmission of the transaction response, terminating the transmission and transmitting an error message to the initiator communications device.

- [c2] 2. The method of claim 1 wherein the initiator communications device is responsible for handling the error.

- [c3] 3. The method of claim 2 wherein the handling includes re-transmitting the transaction request.

- [c4] 4. The method of claim 2 wherein the initiator communications device forwards an indication of the error message to an upper layer for handling.

- [c5] 5. The method of claim 4 wherein the upper layer is an application layer.

- [c6] 6. The method of claim 1 including:  
upon detecting an error during the transmission of the transaction request,  
terminating the transmission and transmitting an error message to  
the initiator communications device.
- [c7] 7. The method of claim 1 wherein the switches, initiator  
communications device, and the responding communications device are part of a  
storage area network.
- [c8] 8. The method of claim 1 wherein the responding communications  
device is a data store device.
- [c9] 9. The method of claim 1 including wherein a switch, upon receiving  
the error message, preempts transmission of a data packet to transmits the error  
message.
- [c10] 10. A method in a switch for handling errors, the method comprising:  
detecting an error that occurs during transmission of data;  
identifying a communications device that initiated the transmission of the  
data; and  
transmitting an error message to the identified communications device so  
that the identified communications device can handle the error.
- [c11] 11. The method of claim 10 wherein the identifying includes retrieving an  
address for the communications device that initiated the transmission.
- [c12] 12. The method of claim 10 wherein the communications device that  
transmitted the data to the switch is not notified of the error.

- [c13]        13. The method of claim 10 including receiving an error message addressed to an initiator communications device and transmitting the error message to initiator communications device.
- [c14]        14. The method of claim 10 wherein the switch is part of a storage area network.
- [c15]        15. The method of claim 10 wherein the switch does not have logic for handling error messages.
- [c16]        16. The method of claim 10 wherein the error is detected during transmission of a request transmitted from the identified communications device to a responding communications device.
- [c17]        17. The method of claim 10 wherein the error is detected during transmission of a response transmitted from a responding communications device to the identified communications device.
- [c18]        18. The method of claim 10 wherein the identified communications device handles the error.
- [c19]        19. The method of claim 10 wherein the identified communications device initiates the transmission of data by transmitting a request to a responding communications device.
- [c20]        20. The method of claim 19 wherein upon receiving the error message, the identified communications device re-initiates the transmission of data by re-transmitting the request to the responding communications device.

- [c21] 21. A communications device comprising:  
a detection component that detects an error during transmission of data  
from a transmitting communications device;  
a identification component that identifies a communications device that  
initiated the transmission of the data; and  
a transmission component that transmits an error message to the identified  
communications device rather than reporting the error to the  
transmitting communications device.
- [c22] 22. The communications device of claim 21 wherein identification  
component identifies the communications device by retrieving an address for the  
communications device that initiated the transmission.
- [c23] 23. The communications device of claim 21 wherein the communications  
device is a switch.
- [c24] 24. The communications device of claim 21 including  
a receiving component that receives an error message addressed to an  
initiator communications device and transmits the error message to  
initiator communications device without handling the error message.
- [c25] 25. The communications device of claim 21 wherein the communications  
device is part of a storage area network.
- [c26] 26. The communications device of claim 21 wherein the communications  
node is a data store device.
- [c27] 27. The communications device of claim 21 wherein the communications  
device does not have logic for handling errors.

- [c28]        28. The communications device of claim 21 wherein the error is detected during transmission of a request transmitted from the identified communications device to a responding communications device.
- [c29]        29. The communications device of claim 21 wherein the error is detected during transmission of a response transmitted from a responding communications device to the identified communications device.
- [c30]        30. A switch comprising:  
means for detecting an error that occurs during transmission of data;  
means for identifying a communications device that initiated the transmission of the data; and  
means for transmitting an error message to the identified communications device so that the identified communications device can handle the error.
- [c31]        31. The switch of claim 30 including wherein the means for identifying includes means for retrieving an address for the communications device that initiated the transmission.
- [c32]        32. The switch of claim 30 wherein the means for transmitting does not notify the communications device that transmitted the data to the switch of the error.
- [c33]        33. The switch of claim 30 including:  
means for receiving an error message addressed to an initiator communications device and transmitting the error message to initiator communications device.